

GNOME

Base GNOME packages for the full GNOME experience. Bundle with other packages to prevent package conflicts providing the same functionality.

TIP: Include any and all packages you want installed in a list to `pacman`. That way `pacman` will resolve package dependencies correctly and not install packages that would cause conflicts with other packages later on in the setup; e.g. the `gnome` group installs `pulseaudio`, but `pulseaudio` and `pipewire` (see below) are conflicting packages, meaning they can't both be installed at the same time prompting you to remove one or the other. Explicitly selected packages take precedence over packages auto-selected via dependencies.

```
pacman -S gnome gnome-extra
```

Setting up display manager

Start GDM on boot

Start the GNOME Display Manager (GDM) on boot to be presented with a graphical login screen.

```
systemctl enable gdm
```

When using NVIDIA proprietary drivers

For the longest time NVIDIA only supported their EGLStreams interface for Wayland sessions. Despite GNOME having support for both EGLStreams and the more popular GBM interface, the GNOME Display Manager disables the Wayland session via a `udev` rule, if it detects the proprietary driver is in use, to prevent problems with the login screen not showing.

To force enable GNOME's Wayland session even with the proprietary NVIDIA driver installed, check the following files:

- `/etc/gdm/custom.conf`: Make sure the line `WaylandEnable=false` is **commented out** (should be by default)
- `/usr/lib/udev/rules.d/61-gdm.rules`: Rename the file and create a symbolic link to `/dev/null`

```
ln -s /dev/null /usr/lib/udev/rules.d/61-gdm.rules
```

Keep in mind that Wayland depends on Kernel Mode Setting to function properly, so it is necessary to include the appropriate kernel modules in the initramfs and setting the kernel commandline parameter to enable KMS support for the proprietary NVIDIA driver!

See [Graphics Cards](#) on how to set up early KMS with the proprietary NVIDIA driver.

Set Keymap for GDM

NOTE: Executing this command while `chroot` ed into an installation will produce an error that the locale could not be found. Set after rebooting the system, press `CTRL + ALT + F3` when GDM shows up (or any F-key between 2 and 7) to switch tty, log in via the command line and execute the command as `root`.

```
localectl set-x11-keymap de
```

See instructions at [Plymouth page](#) on how to set up Plymouth.

Misc additional packages

Additional packages you might want:

Name	Description
<code>gthumb</code>	Image viewer with simple editing capabilities
<code>lollypop</code>	Music player for GNOME
<code>seahorse</code>	Secrets manager (login credentials, SSH keys, GPG keys)
<code>fwupd</code>	Firmware update manager; allows UEFI capsule updates in GNOME Software if supported by firmware

```
pacman -S gthumb lollypop seahorse fwupd
```

GNOME Keyring

Gnome Keyring is a useful tool for securely storing and managing passwords, SSH keys, and other sensitive information.

As `gnome-keyring` is already a member of the `gnome` package group, it should already be installed.

To manage the contents of `gnome-keyring` install `seahorse`:

```
pacman -S seahorse
```

SSH Keys

GNOME comes with GNOME Keyring as the component to store passwords and other secrets. It can act as a wrapper around `ssh-agent` and displays a GUI password entry dialog when you need to unlock an SSH key. This dialog also has a checkbox to remember the password, and will unlock the key automatically when you login to your GNOME session via your regular user password.

To utilize GNOME Keyring for storing SSH passphrases, install the `gcr-4` package:

```
pacman -S gcr-4
```

Then, enable the `gcr-ssh-agent.socket` user unit:

```
systemctl --user enable --now gcr-ssh-agent.socket
```

This will create a socket file under `$XDG_RUNTIME_DIR/gcr/ssh` and set the `$SSH_AUTH_SOCK` environment variable, which `ssh-agent` uses to look for unlocked SSH keys and use them for authentication.

Uniform application styles

Qt applications

To make Qt/KDE applications fit in with the GNOME desktop you can install an Adwaita Qt theme and window decorations:

```
yay -S adwaita-qt{5,6}-git qadwaitadecorations-qt{5,6}
```

Then set the following environment variables in `~/.config/environment.d/qt.conf`:

```
QT_WAYLAND_DECORATION=adwaita
QT_STYLE_OVERRIDE=Adwaita-Dark
```

GTK3 applications

There is an Adwaita theme that brings GTK3 apps in line with the current LibAdwaita theme:

```
pacman -S adw-gtk-theme
```

Then open GNOME Tweaks and set the application theme for legacy applications to `adw-gtk3` (or explicitly to `adw-gtk3-dark` if you notice apps that are not dark mode aware).

Flatpak apps

To apply Adwaita themes to Flatpak apps, install the following packages:

```
flatpak install org.gtk.Gtk3theme.adw-gtk3 org.gtk.Gtk3theme.adw-gtk3-dark
```

If you set the theme for legacy applications in GNOME Tweaks they will also be applied to Flatpak apps.

Firefox

Screenshot of Firefox GNOME Theme

Firefox can be customized to look like a GNOME native application by applying a [GNOME Theme](#) to it.

The simplest way to apply the theme is by installing *Add Water*, an application that allows you to install/remove the Firefox GNOME theme with a single click. It also allows to customize the GNOME theme with several options. It can auto-detect different versions of Firefox (repo package, Flatpak, Snap) as well as Firefox forks (Floorp, Cachy, LibreWolf).

```
flatpak install dev.qwery.AddWater
```

NOTE: When Firefox receives an update the theme can break in some ways. When this happens you can uninstall the theme temporarily or hold off on updating Firefox until an updated version of the theme becomes available.

Steam

Screenshot of Adwaita Steam Theme

There is an Adwaita theme available for Steam to make it fit in with the rest of the GNOME desktop. An app is available that can install and manage the theme for you:

```
flatpak install io.github.Foldex.AdwSteamGtk
```

Remove potentially unwanted packages

GNOME Dev Tools

```
pacman -Rsc gnome-{builder,devel-docs,multi-writer,terminal} accerciser d-spy devhelp glade sysprof
```

User Software

```
pacman -Rsc gnome-{notes,recipes,sound-recorder} polari
```

Games

```
pacman -Rsc gnome-{2048,chess,games,klotski,mahjongg,mines,nibbles,sudoku,taquin,tetravex} hitori iagno lightsoff quadrapassel tali
```

Replace repo packages with Flatpaks

If you wish to use the Flatpak versions of packages that the GNOME desktop team maintains themselves, you can uninstall the packages that are available as Flatpak in GNOME Software.

Remove

TIP: Put substrings of package names between curly brackets `{ }` so the shell substitutes the values, e.g. `gnome-{calculator,calendar,characters,clocks}` is interpreted as if you typed `gnome-calculator gnome-calendar gnome-characters gnome-clocks`. Nesting also works!

Packages part of the `gnome` package group:

```
pacman -Rn gnome-{calculator,calendar,characters,clocks,connections,contacts,font-viewer,logs,maps,music,text-editor,weather} \
    epiphany evince loupe simple-scan snapshot sushi totem
```

Packages part of the `gnome-extra` package group:

```
pacman -Rn accerciser cheese d-spy dconf-editor devhelp endeavour eog evolution geary ghex
gitg glade \
    gnome-{2048,boxes,builder,chess,devel-docs,dictionary,games,klotski,mahjongg,mines,multi-
writer,nibbles,notes,photos,recipes,sound-recorder,sudoku,taquin,terminal,tetravex,tweaks} \
    hitori iagno lightsoff polari quadrapassel seahorse sysprof tali
```

Reinstall

Install the core GNOME apps as Flatpaks:

NOTE: Some of the repo packages of the `gnome-extra` group have been discontinued by GNOME. The following Flatpak selections replaces these with actively developed alternatives.

```
flatpak install flathub
org.gnome.{Calculator,Calendar,Calls,Snapshot,Characters,clocks,ColorViewer,Connections,Contac
ts,SimpleScan,Evince,Extensions,font-
viewer,Loupe,Logs,Maps,Music,NautilusPreviewer,TextEditor,Showtime,Weather,Epiphany}
```

Selection of Flatpaks previously from the `gnome-extra` package group:

```
flatpak install flathub
org.gnome.{Evolution,Geary,GHex,gitg,Glade,Boxes,Photos,seahorse.Application,World.Iotas}
ca.desrt.dconf-editor io.github.alainm23.planify page.kramo.Cartridges page.tesk.Refine
com.mattjakeman.ExtensionManager io.gitlab.adhami3310.Impression
```

For a list of additional packages, see [GNOME Flatpaks](#).

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